Misty Mist Nozzles are used to produce mist for propagation, to irrigate plugs, or to raise humidity levels for cooling. Misty Mist Nozzles produce a 6 foot diameter spray pattern when your water pipeline is 5 feet above the crop. Ideally, these nozzles should be installed on the top side of your pipeline to prevent dripping after system is turned off. We recommend that you install one test line and nozzle based on the guidelines presented before you design a complete installation. After the first pipeline is installed, tested, and adjusted, the remaining lines can be set-up following the same specifications as the first. Click on the pictures below to follow a link to the product on www.amleo.com

Assembly Insert (#AL) – This threaded gasket provides quick installation and a leak-free seal for Misty Mist Irrigation Nozzles. The interior female thread is 3/8 Witworth. To install, use a 7/16" drill bit to drill holes into schedule 40 PVC pipe, aluminum pipe, or galvanized pipe. Caution: Do not use schedule 80 PVC, the wall is too thick for these assemblies to seal correctly. Pipes should be clamped and drilled using a drill press or alignment jig to ensure perfectly round and straight holes. Install the Assembly Insert into the hole and then screw in the nozzle of your choice or a No-Drip Riser for additional nozzle height (see details below). The width of the nozzle expands the Assembly Insert as it is screwed into place, creating a leak-free seal without having to drill and tap every hole. Recommended for use at operating pressures up to 50 PSI.

Blue/White Nozzle (#BW1) – Use this misting nozzle to raise humidity levels or for mist cooling. For this application, we recommended that you automate the system with a controller for short 'on' cycles, due the relatively high output rate of the nozzle. (Please see the products featured at the end of this article.) The pipeline should be suspended in the middle of each bay and as high as possible without interfering with the spray pattern. For best coverage, space nozzles 6 feet apart. There is no need to worry about overlapping spray patterns since the goal is to add water to the air for evaporation, not to create a ground spray. Output varies from 0.17gpm at 36 psi to 0.22gpm at 73psi.

Red/White Nozzle (#RW1) – The right choice for uniform coverage for propagation or plug irrigation. These nozzles should be spaced 3 feet apart so that their spray patterns overlap. Multiple pipelines should be spaced 6 feet apart (and if possible, the nozzles placed in a checkerboard pattern) for complete coverage. The standard spray diameter for these nozzles is 6 feet when installed at a height of 5 feet above the crop. To decrease this spray diameter to 5 feet, lower the water pipeline to 3 feet over the crop and space the nozzles at 2 1/2 foot intervals. Multiple pipelines should be spaced 5 feet apart for complete coverage. Output varies from 0.27gpm at 36psi to 0.35 at 73psi.

No Drip Riser (#NDR) – Use the No-Drip Riser to elevate Misty Mist Irrigation Nozzles 2¼" above the PVC pipeline. When water flow is shut off, excess water falls back into the pipeline due to the additional height the No-Drip Riser provides. This 'fall back' helps control drip from nozzles overhead. Additionally, the added height helps to ensure that no "dry area" exists directly under the water line. No-Drip Risers can also be used to elevate Misty Mist nozzles above the soil line when pipes are buried for landscape purposes.

Run-Out Valve (#ROV) – Very helpful if your conditions require mounting Nozzles in the bottom of the overhead PVC pipes. They are designed to be installed at the end of 1" or ¾" PVC pipelines. When the water is turned off, the Valve will open and allow water in the pipeline to run out, reducing drip from all overhead nozzles. Run-Out Valves require at least 15 PSI to work properly. Use PVC cement and a 1" to ¾" PVC reducer bushing to connect Run-Out Valves to ¾" PVC pipelines. Follow the PVC cement directions regarding pipe preparation and drying times.

The next two products are ideal when you want to eliminate overhead lines or when overhead lines are impossible.

Threaded Pipe Nipple (#PN12T) – This item is used to attach Misty Mist Nozzles directly to 1/2 PVC pipe risers. To install, simply screw the Threaded Pipe Nipple onto the threaded 1/2 PVC pipe riser. 1/2 NPT X 3/8 WW. Use with 1/2 threaded PVC risers.

Slip Fit Pipe Nipple (#PN12) – Used to attach Misty Mist Nozzles directly to straight (unthreaded) 1/2 PVC pipe risers. To install, use PVC cement to attach the Slip Fit Pipe Nipple onto PVC pipe risers. Follow the PVC cement directions regarding pipe preparation and drying times. 1/2 NPT X 3/8 WW. Use with 1/2 straight PVC risers.

The timers and controllers below automate your system for maximum precision.

Water Timer (#5945) – This timer has 2 outlets (1 timed and 1 untimed convenience) which gives you the flexibility to use your faucet without interrupting timer settings. It is easy to use with up to 7 programmable cycles, and one mist cycle. Easy, on-screen programming. Digital LCD time and program display. Diaphragm design offers longer battery life. Two "AA" batteries required (not included). This timer can run up to 7 cycles in a 24 hour period. Non-mist run time is 1 minute minimum and 180 minutes maximum. The mist cycle is pre-set at 20 seconds on, 5 minutes off, and cannot be changed. Additionally, the mist cycle can only be run a maximum of 180 minutes at a time; it will need to be restarted every 3 hours.

Electronic Leaf™ Mist Controller (#MC24) – This controller works on the principle of evaporation – the weight of the mist settling on the stainless steel screen turns off your solenoid. When the water evaporates, the leaf rises and the cycle starts again. Electronic components run on a transformer (which is included) for 24-volt AC current. Pre-wired with 20' of 18-gauge two-strand bell wire for easy attachment to your 24-volt solenoid (solenoid not included). Features a durable stainless steel housing. Adjustable for the moisture needs of your specific plants.